

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: TOM HUNTER
TOWNSEND AND TOWNSEND AND CREW LLP
TWO EMBARCADERO CENTER, 8TH FLOOR
SAN FRANCISCO, CALIFORNIA 94111

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

Date of Mailing (day/month/year)	30 JAN 1997
-------------------------------------	-------------

Applicant's or agent's file reference 2307E-5163PC	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US96/16085	International filing date (day/month/year) 07 OCTOBER 1996
Applicant THE REGENTS OF THE UNIVERSITY OF CALIFORNIA	

1. The applicant is hereby notified that the international search report has been established and is transmitted herewith.
- Filing of amendments and statement under Article 19:
The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):
- When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.
- Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35
- due 3-30-97
- For more detailed instructions, see the notes on the accompanying sheet.
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
 - no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following:

5/20/97
16/20/97

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.

4-20-98

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer JOYCE TUNG Telephone No. (703) 308-0196
---	--

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2307E-5163PC	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US96/16085	International filing date (day/month/year) 07 OCTOBER 1996	(Earliest) Priority Date (day/month/year) 20 OCTOBER 1995
Applicant THE REGENTS OF THE UNIVERSITY OF CALIFORNIA		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Certain claims were found unsearchable (See Box I).
2. Unity of invention is lacking (See Box II).
3. The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing
 - filed with the international application.
 - furnished by the applicant separately from the international application,
 - but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
 - transcribed by this Authority.
4. With regard to the title, the text is approved as submitted by the applicant.
 - the text has been established by this Authority to read as follows:
5. With regard to the abstract,
 - the text is approved as submitted by the applicant.
 - the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is:
 Figure No. _____
 - as suggested by the applicant.
 - because the applicant failed to suggest a figure.
 - because this figure better characterizes the invention.

INTERNATIONAL SEARCH REPORT

International application No. PCT/US96/16085

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :C12Q 1/68; C07H 21/04
US CL :435/6; 536/24.3

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6; 536/24.3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

STN searched, uspat, medline, biosis, caplus
search terms: detect chromosome abnormality, FLpter 0.825, fluorescent labeled, hybridization complex

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US 5,472,842 A (STOKKE et al.) 05 December 1995, column 1, lines 66-67; column 2, lines 1-45.	1-20
X	TANNER et al. Increased Copy Number at 20q13 in Breast Cancer: Defining the Critical Region and Exclusion of Candidate Genes. Cancer Research. 15 August 1994, Vol. 54, pages 4257-4260, especially page 4257, abstract.	1, 4-13, 16, 17, 19, 20
Y	GYAPAY et al. The 1993-1994 genethon human genetic linkage map. Nature Genetics. June 1994, Vol. 7. pages 246-339, especially page 329.	2, 3, 14, 15, 18
Y	EP 0 571 911 A2 (BECTON, DICKINSON & COMPANY) 01 December 1993, page 14, claim 3.	2, 3, 14, 15, 18

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means		
P document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

26 DECEMBER 1996

Date of mailing of the international search report

30 JAN 1997

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

JYCE TUNG

Telephone No. (703) 308-0196

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US96/16085

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Database EST-STS on MPsrch Accesion No. G08049, Murray et al. 'Cooperative human linkage center' 08 August 1995.	2, 3, 14, 15, 18

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter II.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

08 | 785,153
PATENT COOPERATION TREATY
PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

H
HDS
allat

Applicant's or agent's file reference 23070-6893PC	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US97/12343	International filing date (day/month/year) 15 JULY 1997	(Earliest) Priority Date (day/month/year) 15 JULY 1996
Applicant THE REGENTS OF THE UNIVERSITY OF CALIFORNIA		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Certain claims were found unsearchable (See Box I).
2. Unity of invention is lacking (See Box II).
3. The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing
 - filed with the international application.
 - furnished by the applicant separately from the international application,
 - but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
 - transcribed by this Authority.
4. With regard to the title,
 - the text is approved as submitted by the applicant.
 - the text has been established by this Authority to read as follows:
5. With regard to the abstract,
 - the text is approved as submitted by the applicant.
 - the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is:

Figure No. _____

 - as suggested by the applicant.
 - because the applicant failed to suggest a figure.
 - because this figure better characterizes the invention.

None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US97/12343

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-42, 44-46

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US97/12343

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : C12N 15/11; C12Q 1/68, A61K 48/00
US CL : 536/23.1; 435/6; 515/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.1; 435/6; 515/44

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS, DIALOG, MPSRCH
search terms: 20q13 amplicon, ZABC1

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SHORT et al. Lambda ZAP: a bacteriophage lambda expression vector with in vivo excision properties. Nucleic acids Res. 1988, Vol. 16, No. 15, pages 7583-7600. See entire document.	1, 5
X	WO 93/25671 A1 (COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION) 23 December 1993. See entire document.	1, 5
X	OKUBO et al. An expression profile of active genes in human colonic mucosa. DNA Res. 1994, Vol. 1, pages 37-45. See entire document.	1, 11

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier document published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means		
P document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

15 AUGUST 1997

Date of mailing of the international search report

15 SEP 1997

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

MINH-TAM DAVIS

Telephone No. (703) 308-0916

INTERNATIONAL SEARCH REPORT

International application No. PCT/US97/12343

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PAWLAK et al. Characterization of a large population of mRNAs from human testis. Genomics. 1995, Vol. 26, pages 151-158. See entire document.	1, 13
X	WO 93/24514 A (MITOTIX) 09 December 1993. See entire document.	1, 15
X -- Y	MORRIS et al. Entire ABL gene is joined with 5'-BCR in some patients with Philadelphia-positive leukemia. Blood. 15 August 1991, Vol. 78, No. 4, pages 1078-1084. See entire document.	1, 15 ----- 25, 36
X	HOROWITZ et al. The human glucocerebrosidase gene and pseudogene: Structure and evolution. Genomics. 1989, Vol. 4, pages 87-96. See entire document.	1, 15
X	GORBULEV et al. Organization and chromosomal localization of the gene for the human bombesin receptor subtype expressed in pregnant uterus. FEBS Lett. 1994, Vol. 340, pages 260-264. See entire document.	1, 20



P.B.5818 - Patentlaan 2
2280 HV Rijswijk (ZH)
+31 70 340 2040
TX 31651 epo nl
FAX +31 70 340 3016

Europäisches
Patentamt

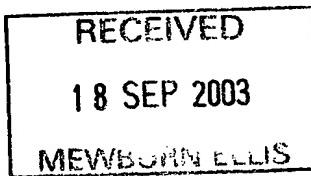
Zweigstelle
in Den Haag
Recherche-
abteilung

European
Patent Office

Branch at
The Hague
Search
division

Office uropéen
des brevets
Département à
La Haye
Division de la
recherche

Kremer, Simon Mark
Mewburn Ellis,
York House,
23 Kingsway
London WC2B 6HP
GRANDE BRETAGNE



RECORDS ENT'D ... *DAB*
RECORDS SEEN
DIARY ENT'D
RENEWAL ENT'D

Datum/Date.....

16.09.03

Zeichen/Pat./Rét. <i>SMK/FP574513</i>	Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°. 97932612.1
Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire THE REGENTS OF THE UNIVERSITY OF CALIFORNIA	

COMMUNICATION

The European Patent Office herewith transmits

- the European search report
- the declaration under Rule 45 EPC
- the partial European search report under Rule 45 EPC
- the supplementary European search report concerning the international application under Article 157(2) EPC relating to the above-mentioned European patent application. *Copies of the documents cited in the search report are enclosed.*

The following specifications given by the applicant have been approved by the Search Division :

- Abstract Title Figure
- The abstract was modified by the Search Division and the definitive text is attached to this communication.
- The following figure will be published with the abstract, since the Search Division considers that it better characterises the invention than the one indicated by the applicant.

Figure:

- Additional copy(copies) of the documents cited in the European search report.



REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



European Patent
Office

Application Number
EP 97 93 2612

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1 (part), 2-3, 24-28 (part), 30, 41-44 (part)



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

Invention 1: claims 1 (part), 2-3, 24-28 (part),
30, 41-44 (part)

This group of claims is directed to an isolated nucleic acid molecule (cDNA) comprising a polynucleotide sequence having a subsequence which specifically hybridizes under stringent conditions to a sequence consisting of SEQ ID NO: 2, said sequence further comprising a promoter sequence, the use of said sequence in a method of screening/detecting neoplastic cells (the presence of a mutation) in a biological sample, and a method of inhibiting the pathological proliferation of cancer cells comprising inhibiting the activity of the gene product of SEQ ID NO: 2.

Inventions 2-12: claims 1 (part), 4-29 (part),
31-44 (part), 46-47 (part)

This group of claims is directed to an isolated nucleic acid molecule (cDNA) comprising a polynucleotide sequence having a subsequence which specifically hybridizes under stringent conditions to a sequence consisting of SEQ ID NO: 3-10 and 12-13, said sequence further comprising a promoter sequence, the use of said sequences plus SEQ ID NO: 1 in a method of screening/detecting neoplastic cells (the presence of a mutation) in a biological sample, and a method of inhibiting the pathological proliferation of cancer cells comprising inhibiting the activity of the gene product of SEQ ID NO: 3-10, 12-13 and SEQ ID NO: 1.



Eur pean Pat nt
Office

**SUPPLEMENTARY
PARTIAL EUROPEAN SEARCH REPORT**

Application Number

which under Rule 45 of the European Patent Convention EP 97 93 2612
shall be considered, for the purposes of subsequent
proceedings, as the European search report

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
D,X	BEELER J F ET AL: "PROKARYOTIC EXPRESSION CLONING OF A NOVEL HUMAN TYROSINE KINASE" MOLECULAR AND CELLULAR BIOLOGY, WASHINGTON, DC, US, vol. 14, no. 2, 1 February 1994 (1994-02-01), pages 982-988, XP000574441 ISSN: 0270-7306 * figure 2 *	26-28, 30,41-44	C12N15/11 C12Q1/68 A61K48/00

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

INCOMPLETE SEARCH

The Search Division considers that the present application, or some or all of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for the following claims:

Claims searched completely :

Claims searched incompletely :

Claims not searched :

Reason for the limitation of the search:

see sheet C

TECHNICAL FIELDS
SEARCHED (Int.Cl.6)

C12N
C12Q
A61K

4

Place of search	Date of completion of the search	Examiner
MUNICH	21 May 2003	Hillenbrand, G
CATEGORY OF CITED DOCUMENTS		
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document		



European Patent
Office

INCOMPLETE SEARCH
SHEET C

Application Number
EP 97 93 2612

Claim(s) not searched:
45

Reason for the limitation of the search:

Present claim 45 relates to an extremely large number of possible methods for the overexpression of a multiplicity of proteins encoded in a 20q13 amplicon. In fact, the claims contain so many options and variables that a lack of clarity (and conciseness) within the meaning of Article 84 EPC arises to such an extent as to render a meaningful search of said claim impossible.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 97/00011

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12N15/12 C07K14/715 C12N15/86 G01N33/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C07K C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	J BIOL CHEM, DEC 8 1995, 270 (49) P29236-43, UNITED STATES, XP002029542 BROWN PM ET AL: "Epitope-labeled soluble human interleukin-5 (IL-5) receptors. Affinity cross-link labeling, IL-5 binding, and biological activity." see the whole document ---	1-15
X	PROTEIN EXPR PURIF, FEB 1995, 6 (1) P63-71, UNITED STATES, XP000671245 BROWN PM ET AL: "A single-step purification of biologically active recombinant human interleukin-5 from a baculovirus expression system." see the whole document ---	1-15
	-/-	

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

4

Date of the actual completion of the international search

22 April 1997

Date of mailing of the international search report

24.04.97

Name and mailing address of the ISA

European Patent Office, P.B. 5813 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+ 31-70) 340-2040, Tx. 31 651 epo nl,
 Fax (+ 31-70) 340-3016

Authorized officer

Nauche, S

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 97/00011

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 533 006 A (HOFFMANN LA ROCHE) 24 March 1993 see page 3, line 49 - page 5, line 30; claims 1-10 ---	1-15
X	EP 0 492 214 A (HOFFMANN LA ROCHE) 1 July 1992 see page 4, column 18 - page 4, column 31; claims 1-11 -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 97/00011

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0533006 A	24-03-93	AU 657788 B AU 2357192 A CA 2078384 A JP 5268967 A NZ 244281 A US 5455337 A ZA 9206962 A	23-03-95 25-03-93 19-03-93 19-10-93 27-04-95 03-10-95 13-04-93
EP 0492214 A	01-07-92	AU 647560 B AU 8998591 A CA 2058003 A JP 2554418 B JP 6078772 A	24-03-94 15-10-92 28-06-92 13-11-96 22-03-94